

Command Core System Info Briefing

*Lt Col Alan Dooley
HQ ACC/SGOP
AF Command Core Champion*

23 Mar 01

Outline

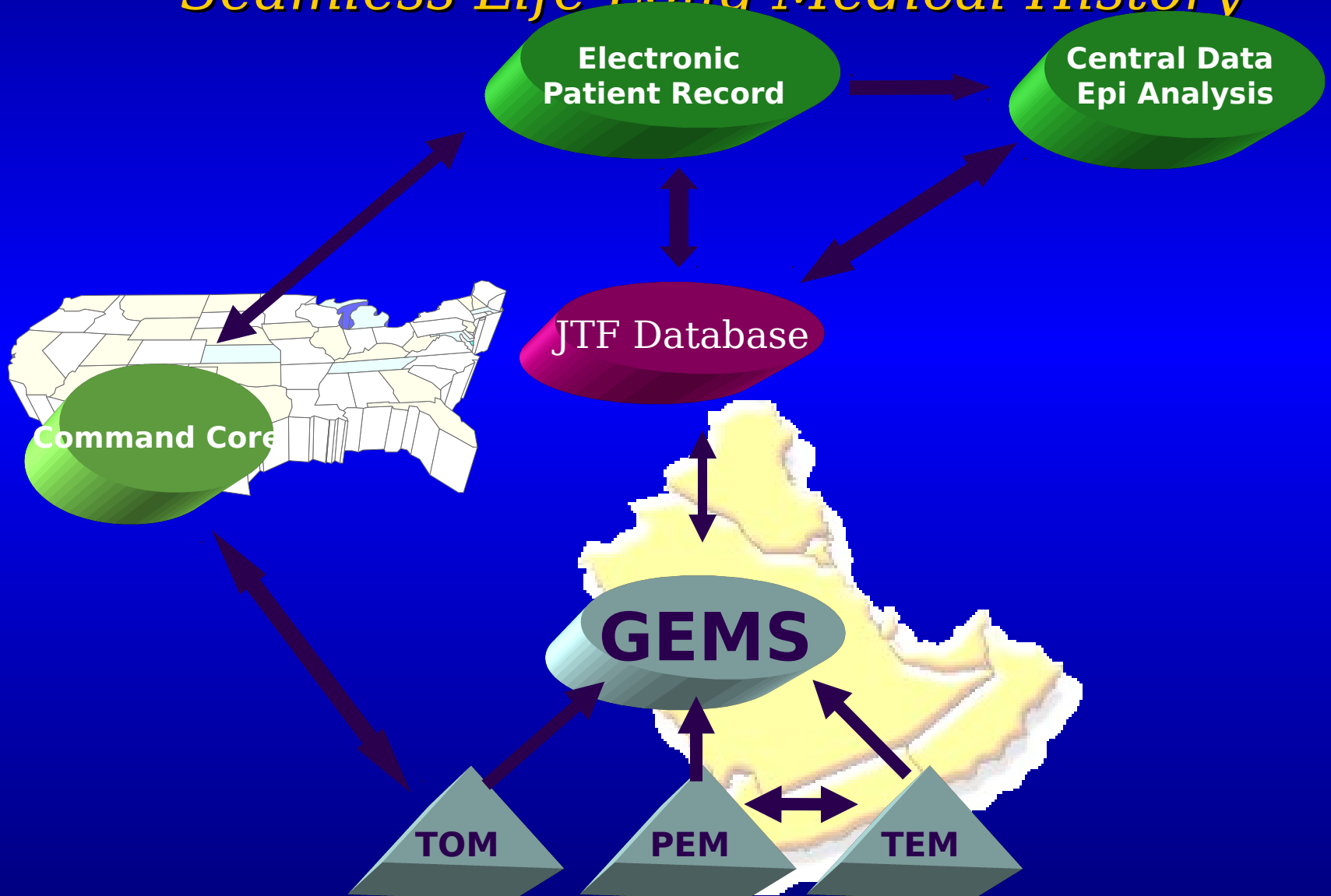
- ◆ Force Health Protection IM/IT
 - ◆ Garrison vs Theater
- ◆ Command Core Status
- ◆ Activity Based Operational Risk Management
- ◆ Electronic Casefile
 - ◆ Demo
- ◆ Summary

AF Team Aerospace Applications

	Clinical	IH	Env Health
Garrison	CHCS II	DORHS (CCS)	DORHS-? CCS
Theater (Level 3- 4)	TMIP (CHCS II)	TMIP (CCS)	DORHS-? CCS
Theater (Level 1- 2)	GEMS (PEM)	GEMS (TOM)	GEMS (TOM)

Full Spectrum IA IM Concept

Seamless Life Long Medical History



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GEMS: Ultra-light Expeditionary IM/IT

- ◆ Deployed Care
- ◆ Command/Control
- ◆ Epidemiological Warning
- ◆ Info Reach Back
- ◆ Environmental Surveillance



***GEMS scales Medical Force Protection
to the deployed laptop/handheld
platform***

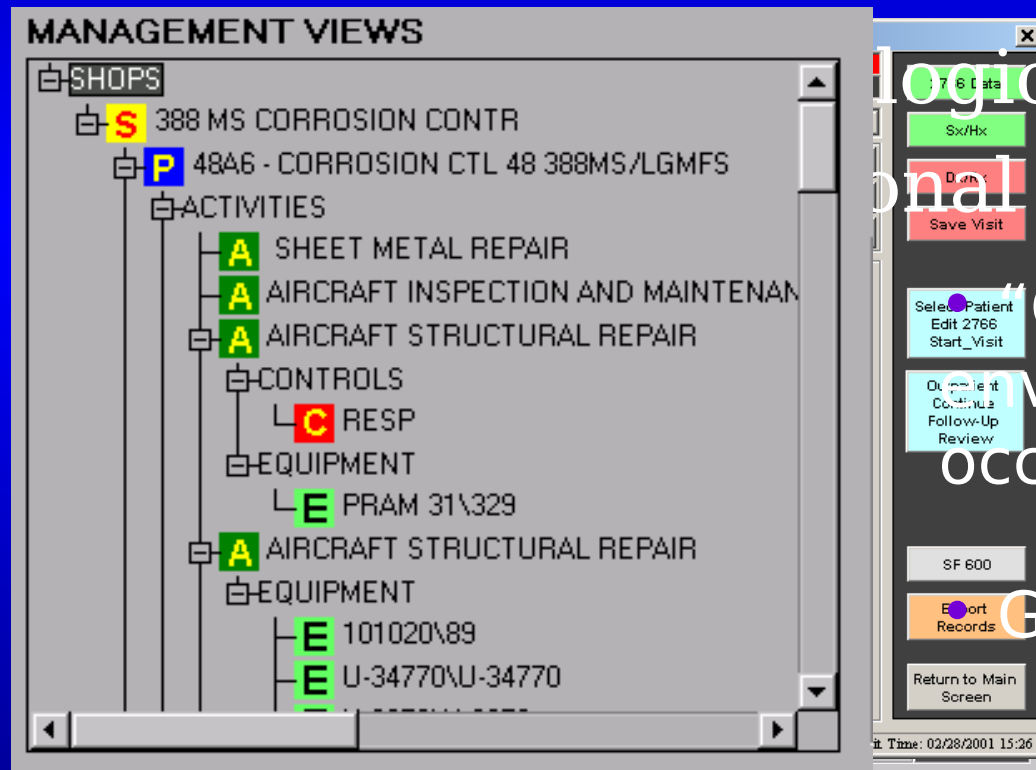
Target Use: Air **Expeditionary Forces**

- **Advanced Medical Teams**
- **Squadron Medical Elements**
- **Remote Clinics**

***“Standardized deployed
Medical IM/IT enabling
global surveillance”***

GEMS Components

◆ Patient Encounter Module (PEM)



Logical Module (TEM)

Functional Module (TOM)

epidemiologic data
"Contingency focused"
analysis tool

Environmental and
occupational feature set

Advanced Command and

Control patient

GEMS Module

Surveys
- robust reports
system

Patient Encounter Module

Outpatient Visit

FMP: 20 SSAN: 143352535 Janeway, Kathryn ON PRP ON FLYING STATUS

LANGLEY AFB

Primary Provider: Dr. Smart

Chief Complaint

ANKLE, SPRAIN

Duration: 1 Days

Vital Signs

Sys	Dia	Pulse	BTemp	Resp	Date Taken
120	80	64	98.6	18	02.

Symptoms

- ☒ MUSCULOSKELETAL
 - ☐ Normal
 - ☐ Ankle Injury
 - ☒ Joint Pain
 - ☐ Negative
 - ☒ "Went over" on left ankle yesterday
 - ☒ Joint Swelling
 - ☐ Negative
 - ☐ Note
 - ☐ Knee Injury
 - ☐ Note

Physical Exam

- ☐ FOOT, RIGHT
- ☒ FOOT, LEFT
 - ☐ Normal
 - ☐ Abrasion
 - ☐ Amputation
 - ☐ Angulation
 - ☐ Ankle
 - ☐ Ankle Dislocation, Closed
 - ☐ Ankle Sprain, Mild
 - ☒ Ankle Sprain, Moderate
 - ☐ Negative
 - ☐ Note
 - ☐ Ankle Sprain, Severe
 - ☐ Avulsion
 - ☐ Baker Cyst

3D Human Model

2766 Data

Sx/Hx

Dx/Rx

Save Visit

Select Patient

Edit 2766 Start_Visit

Outpatient Continue Follow-Up Review

SF 600

Export Records

Return to Main Screen

Connection: External ACCESS

Dr. Smart

Visit Time: 02/28/2001 15:26

Use of templates to
Streamline data entry

Quick data collection
enabled through
intelligent "pick lists"...

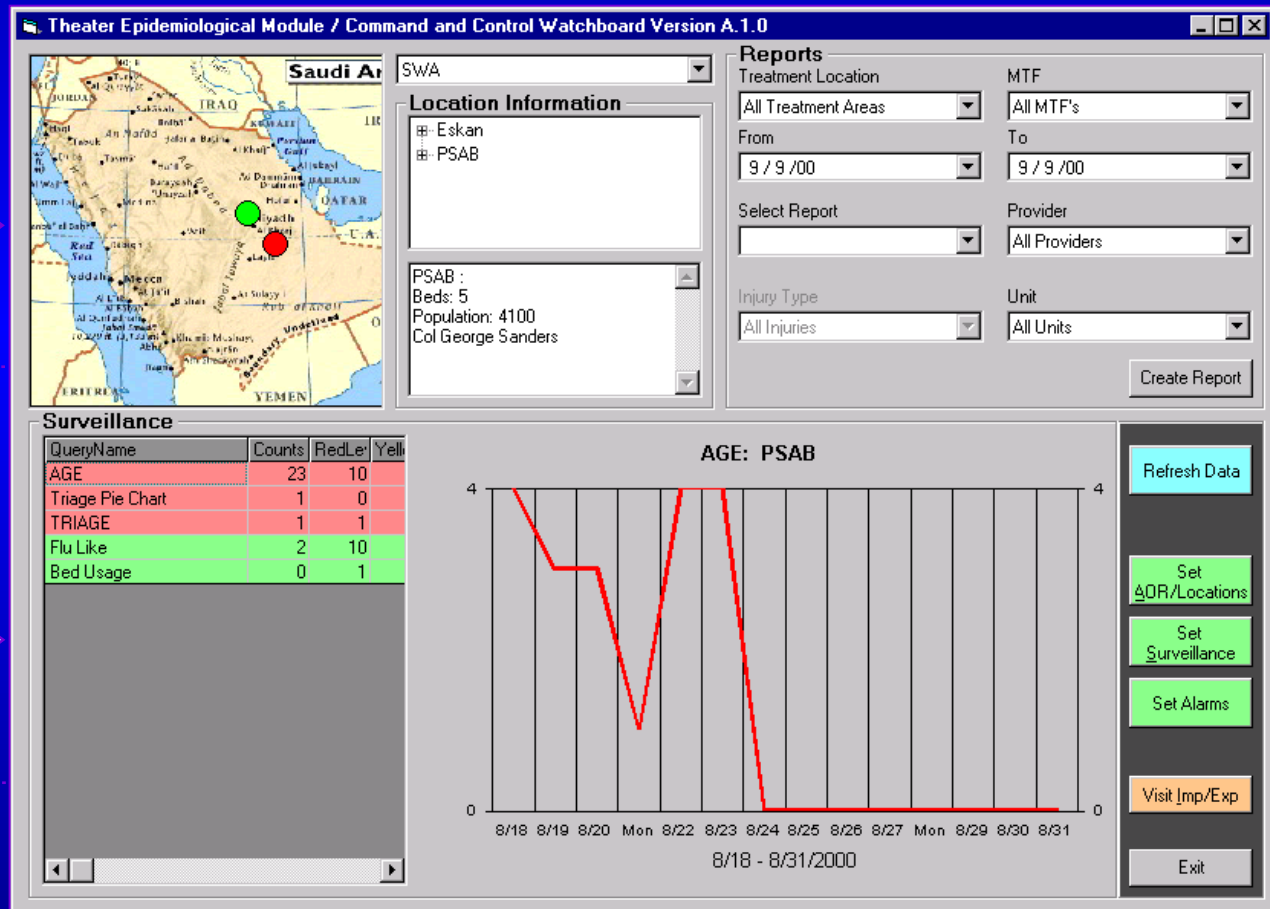
...and use of a
human model with
shortcuts to different
organ systems

- A working environment rich in visual representation of difficult to define concepts
- An intuitive user interface with an integrated tutor program and user prompts.
- An environment where the user can direct how much information they need to input or see based on level of knowledge, time, and mission constraints.

Theater Epidemiological Module

Graphic modeling of data, enabling quick evaluation of threats and capabilities.

Multiple data-sets to choose from.
End user defined warning levels tailored for varied mission requirements.



TOM Feature Set

Environmental

- Environmental Sampling
- Risk Assessment
- Hazardous Material Management

Occupational Health

- Demographics
- Industrial Hygiene
- Environmental Health
- Risk Assessment

Safety

- ◆ Injury and Illness
- ◆ Risk Assessment

ENVIRONMENTAL SAMPLE RESULTS

☐ CREATE NEW BASE SAMPLE NO COLLECTION METHOD SAMPLE TYPE

BASE SAMPLE NO

*SAMPLE PT

OFFICE SYMBOL *ORGANIZATION

SAMPLE

☐ BASE SAMPLE NO

AIR SAMPLING SURVEY

☐ CREATE NEW BASE SAMPLE NO COLLECTION METHOD SAMPLE TYPE

BASE SAMPLE NO DATE/TIME OF SURVEY

TYPE OF SAMPLE CONSECUTIVE SAMPLE NO

PEG CODE

ACTIVITY/PROCESS ID ACTIVITY/PROCESS NAME

*ACTIVITY/PROCESS DESCRIPTION

*SAMPLE LOCATION BUILDING NO

*FUNCTIONAL AREA *HAZARD TYPE

ACTIVITIES/PROCESSES PERFORMED AT TIME OF SURVEY

ACTIVITY/PROCESS ID	ACTIVITY/PROCESS NAME	ACTIVITY/PROCESS DESCRIPTION
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<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>

SUPervisor, BLANK SAMPLE NO'S SUPERVISOR PHONE

SUPERVISOR FAX REVIEW DATE REVIEWER'S OFFICIAL

INJURY/ILLNESS REPORTING (LOCATION INFORMATION)

WAS PLACE OF ACCIDENT OR EXPOSURE ON EMPLOYER'S PREMISES ☐

OCCURRED IN ASSIGNED WORK AREA

OFFICE SYMBOL ON INCIDENT VISIT DATE/CA2 DATE

INJURY/ILLNESS LOCATION

IN DEVELOPMENT

GEMS Status

- ◆ DT&E (All Modules)
 - ◆ Full CCS Integration - Aug 2001
- ◆ OT&E (PEM & TEM)
 - ◆ Exercise Testing
- ◆ DEPLOYED PEM & TEM (Version 1.2)
 - ◆ All EMEDS platforms
 - ◆ AFSOC deployments
 - ◆ Prince Sultan AB
 - ◆ Data Central -- Brooks AFB
- ◆ TOM
 - ◆ In Development



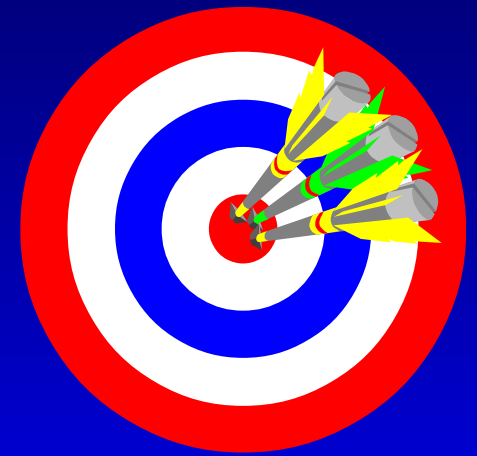
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Command Core Program

- ◆ DESCRIPTION: -- The Command Core System (CCS) is a relational database system providing enterprise-wide USAF integration of medical, environmental, logistics, and safety information.
- ◆ OPR:
 - ◆ Goal Champion: Col Sprester (AFMOA)
 - ◆ Program Lead: Col Hamilton (HQ ACC/SGOP)
 - ◆ Program Manager: AFIERA/RS
- ◆ GOALS:
 - ◆ Enterprise-wide ESOH IM/IT
 - ◆ Support Informed ESOH decision-making at all levels of the enterprise

Command Core Vision



- Field a World-Class Integrated Environment, Health, and Safety (EHS) System
 - Decrease Costs
 - Increase Productivity
- Improve Decision Making
- Facilitate Operational Risk Management

CCS Modular Functionality

- ◆ Medical
 - ◆ Industrial Hygiene
 - ◆ Occupational Medicine/Public Health
- ◆ Environmental
 - ◆ Air Program Information Management
 - ◆ Waste Management
 - ◆ Pollution Prevention
 - ◆ Environmental Sampling
- ◆ Shared Functions
 - ◆ Employee (Demographics and Organizations)
 - ◆ Hazardous Material Management
 - ◆ Risk Management
 - ◆ Activity Definition
- ◆ Safety



COMMAND CORE SYSTEM

Mod#: 4101

— MAIN MENU —

EMPLOYEE MENU

OMS/PUBLIC HEALTH MENU

POLLUTION PREVENTION MENU

SHARED FUNCTIONS MENU

INDUSTRIAL HYGIENE MENU

SAFETY MENU

MATERIAL MANAGEMENT MENU

WASTE MANAGEMENT MENU

AIR PROGRAM MANAGEMENT MENU

ENVIRONMENTAL SAMPLING MENU

PREVENTIVE HEALTH ASSESSMENT

PROGRAM ASSESSMENT

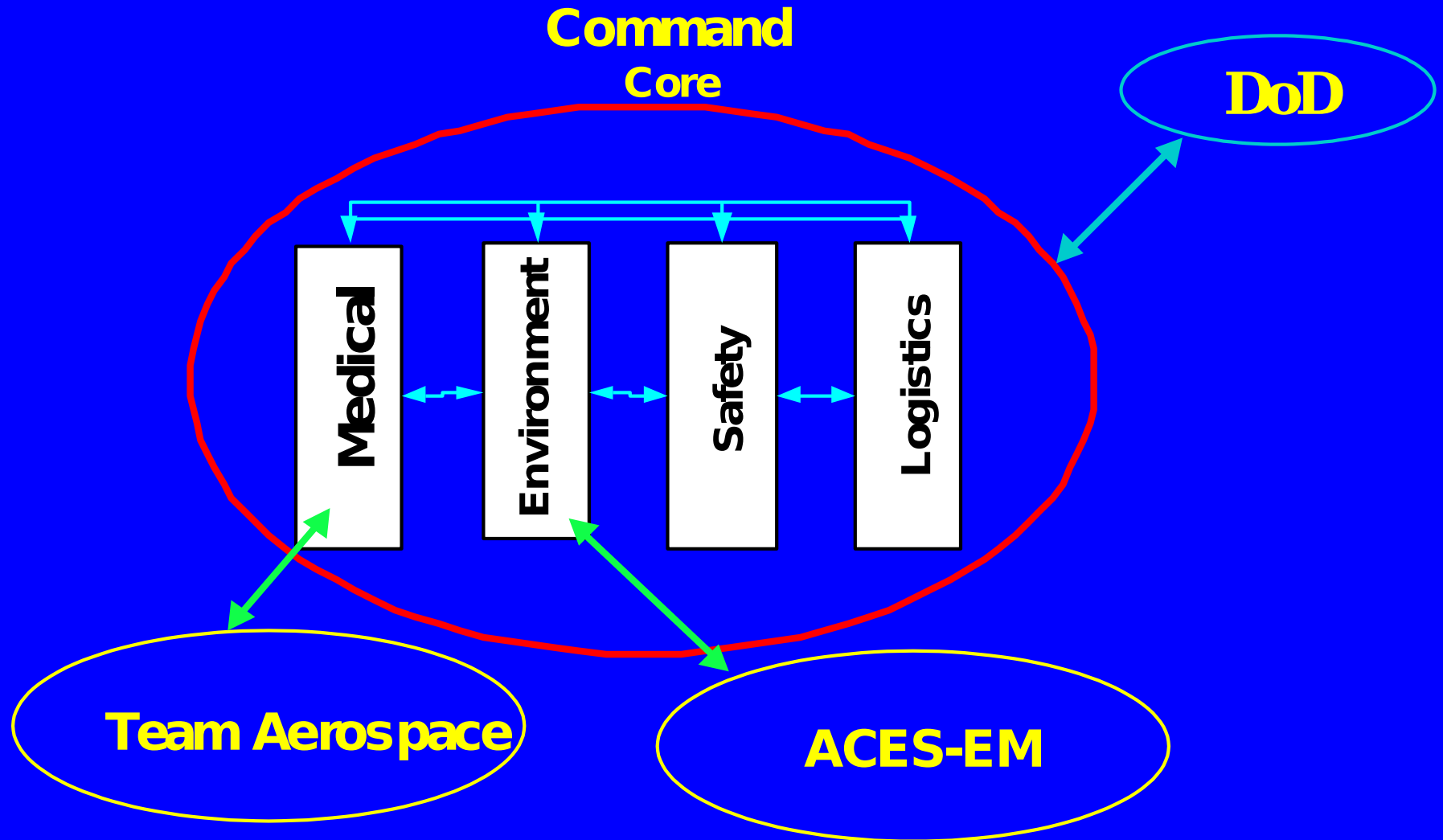
INTERFACES

PREFERENCES

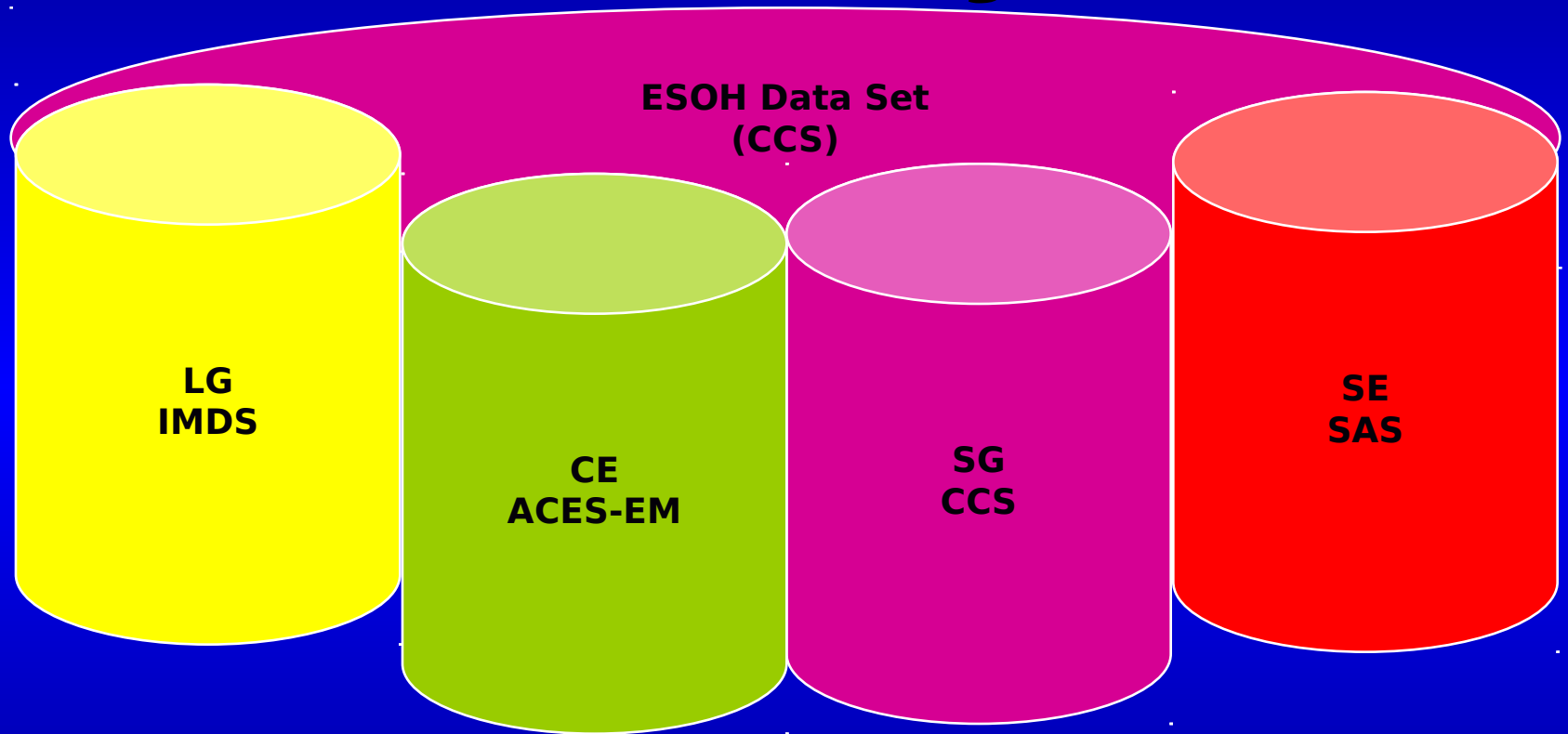
Operational Status

- ◆ Deployed to 81 Fixed AF installations
- ◆ Operational at Deployed Site
- ◆ Mature system, Version 4.3

CCS Operational Model



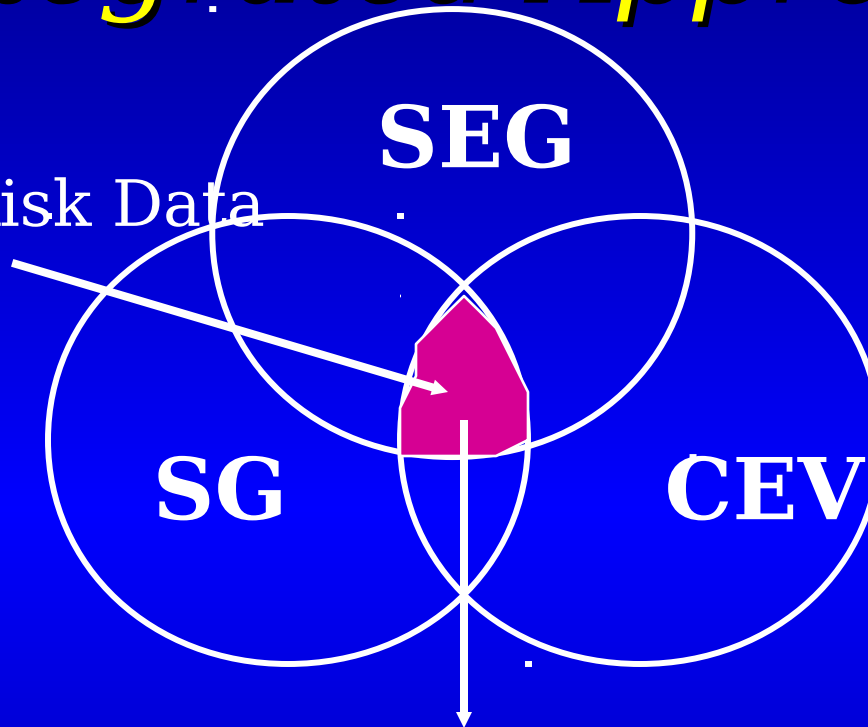
ESOH Players



ESOH Migration Requires Data Sharing Across Function

Integrated Approach

Integrated Risk Data

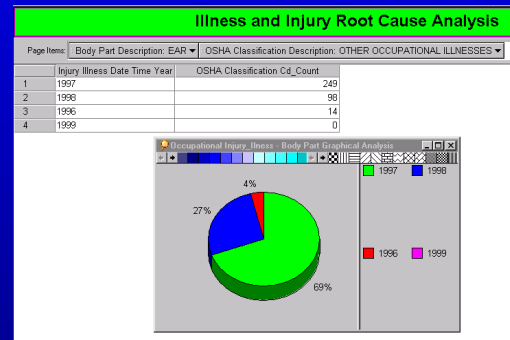


Numerous Data Sources

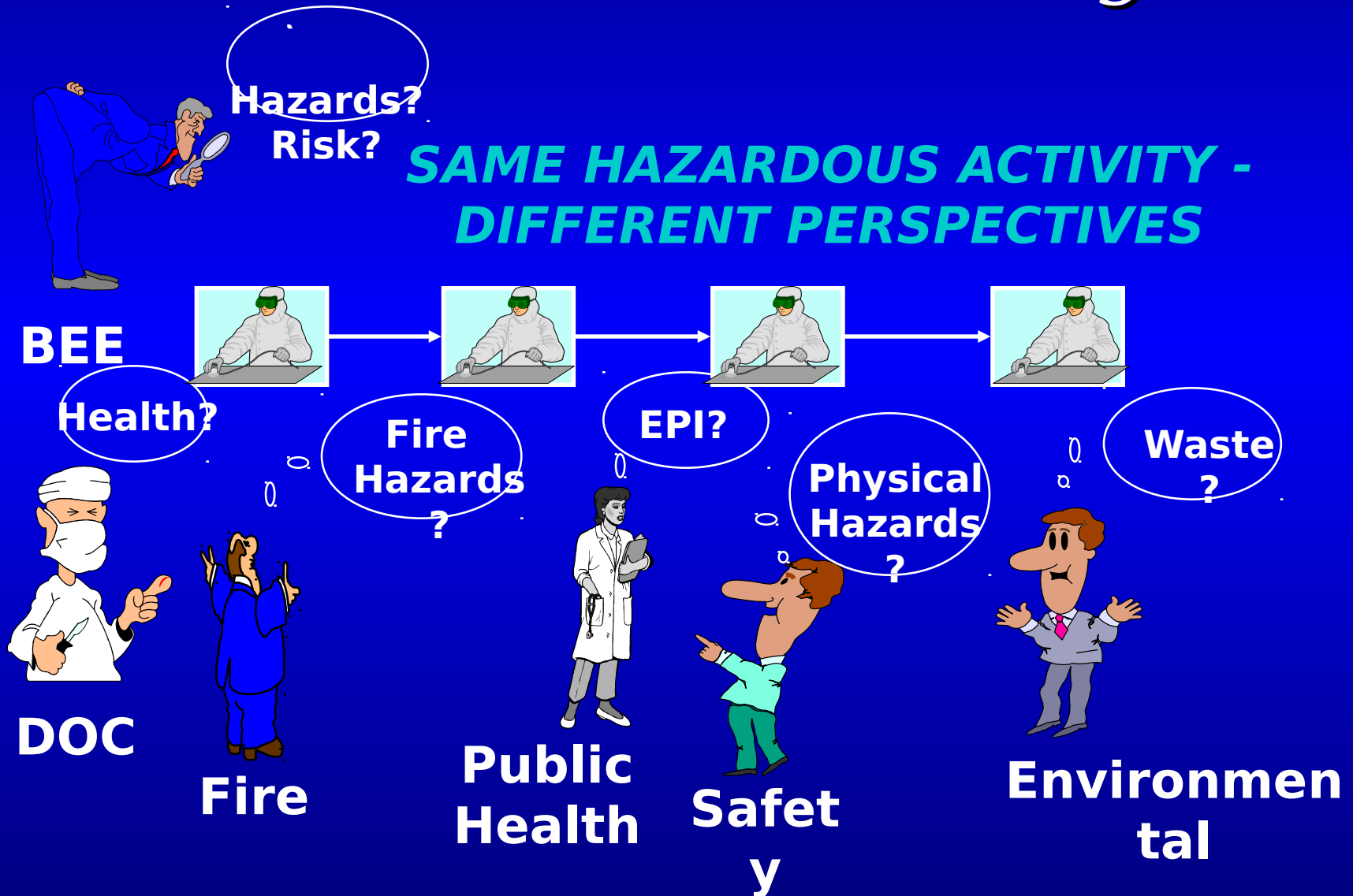
- Compliance
- Health & Safety Reports - Hazard ID
- After Actions
- Etc...

Customers at all levels

- 1 Key Report -- ORM Risk Foundation
- Impact to mission understood
- Begin ORM



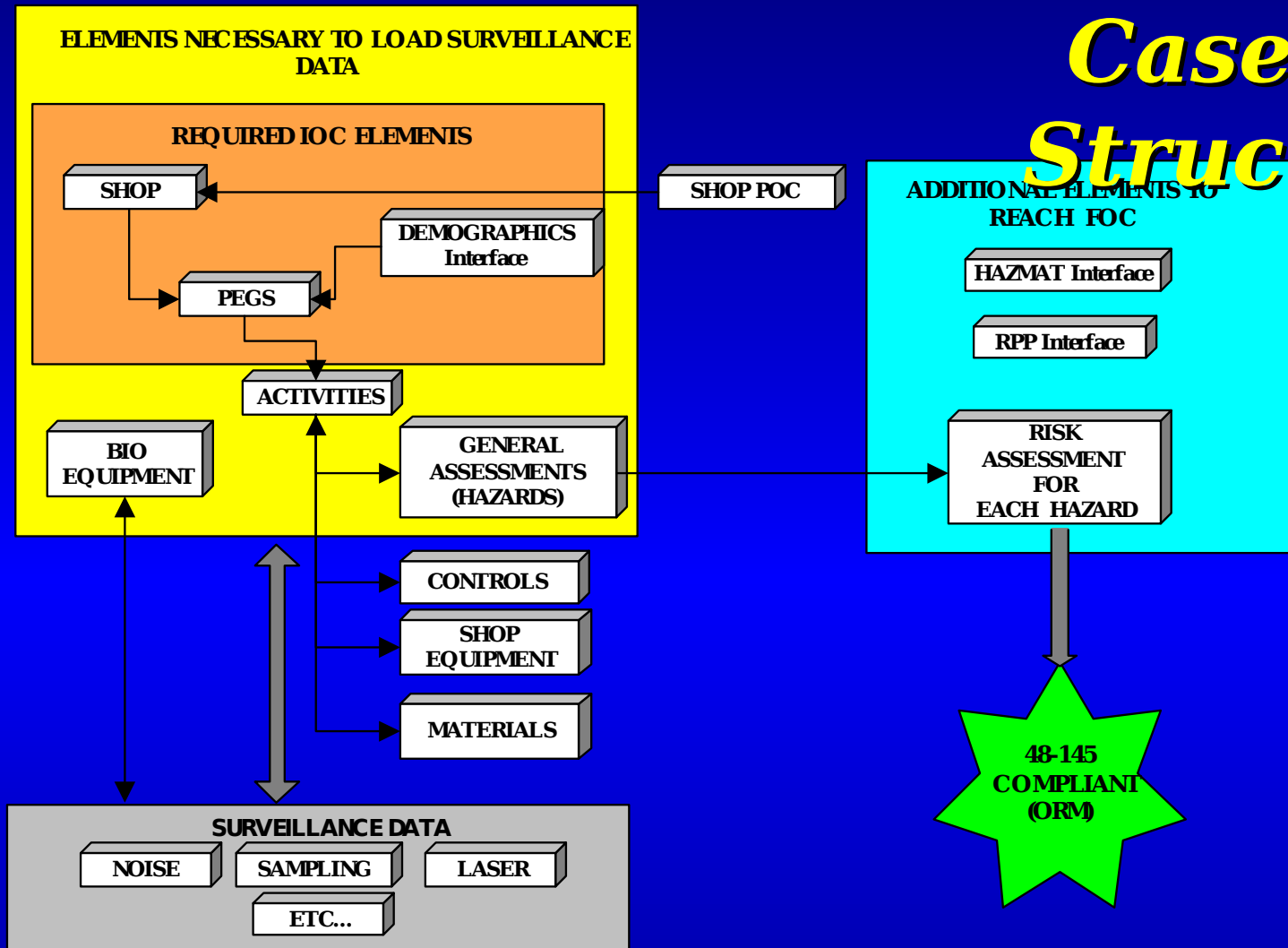
Common Data Sharing



Activity-Based Philosophy General/Risk Assessments

- General Assessment: Identify all potential risks/hazards across all functional areas
- Risk Assessment:
 - Evaluate each specific hazard separately
 - Assign level of risk to each hazard
 - Recommend multiple control measures for each risk/hazard
 - Allow control decisions to be made and track risk control implementation

IH Electronic Casefile Structure

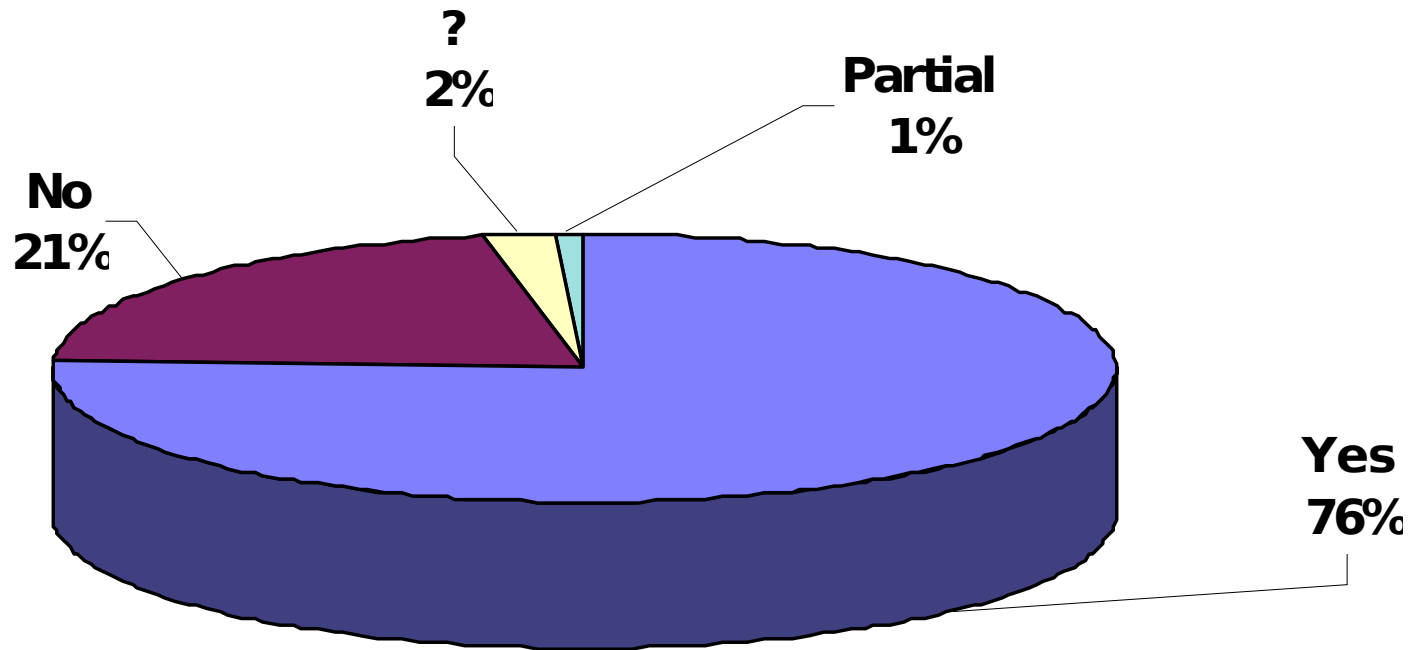


Conduct CCS DEMO Here

CCS vs DORHS Requirements

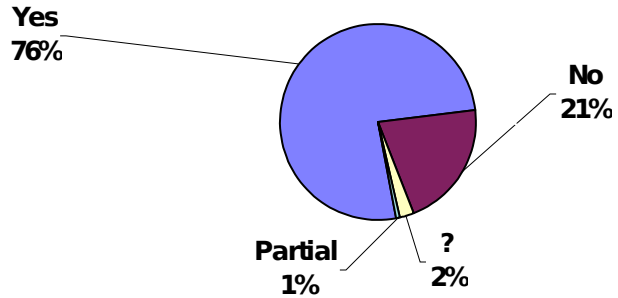
- ◆ TMIP
 - ◆ 76%
- ◆ Garrison
 - ◆ 85%

CCS TMIP Analysis

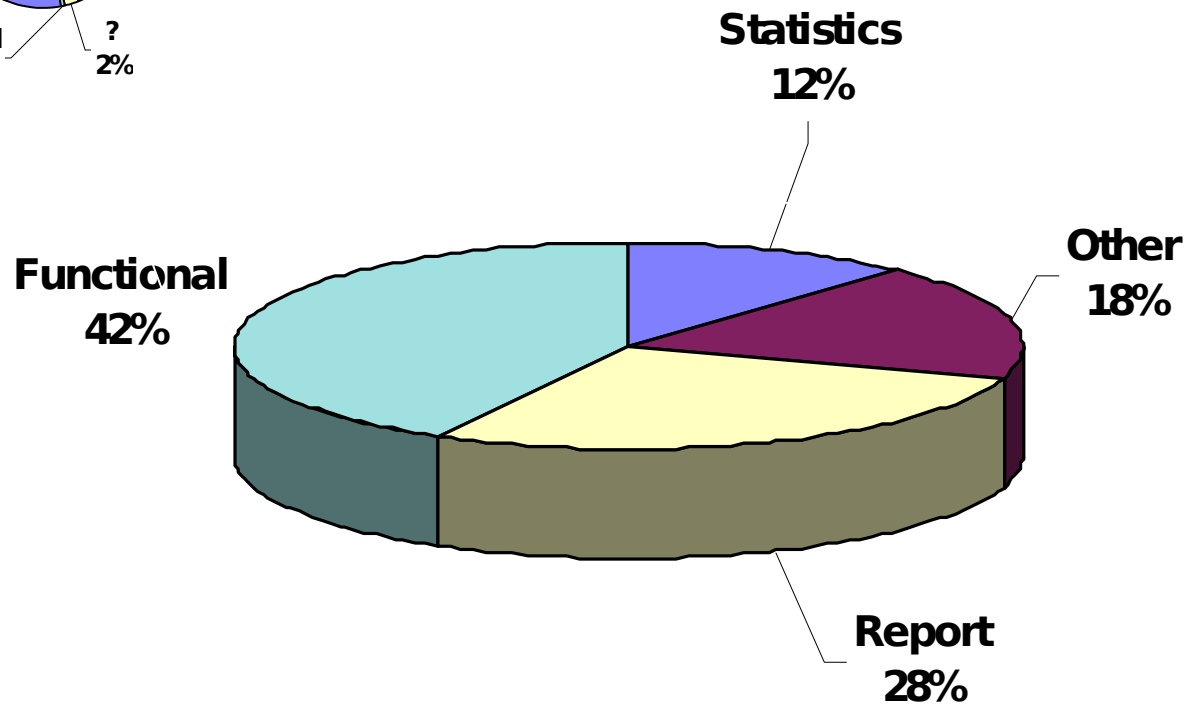


Command Core Capability vs TMIP Requirements

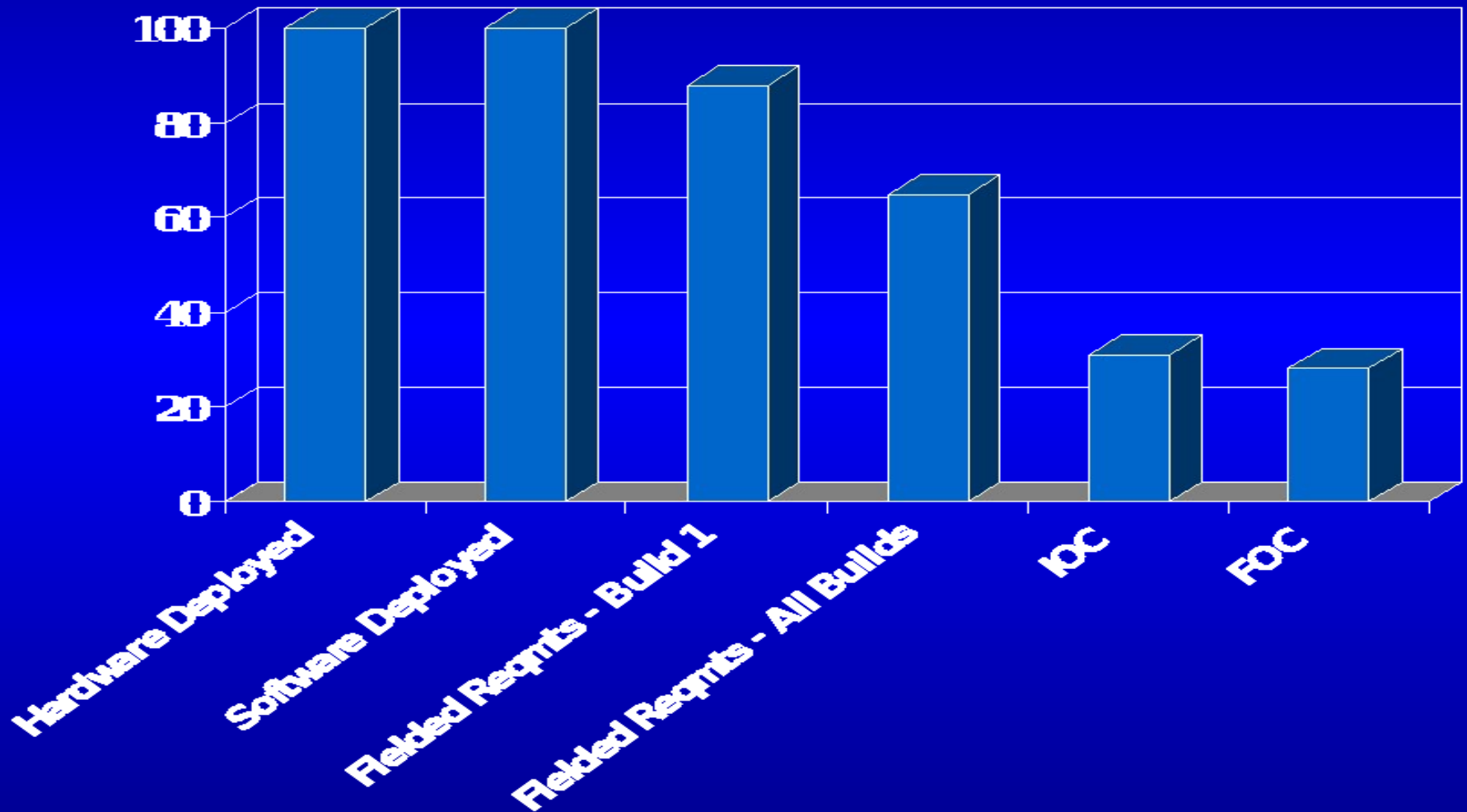
Command Core Capability vs TMIP Requirements



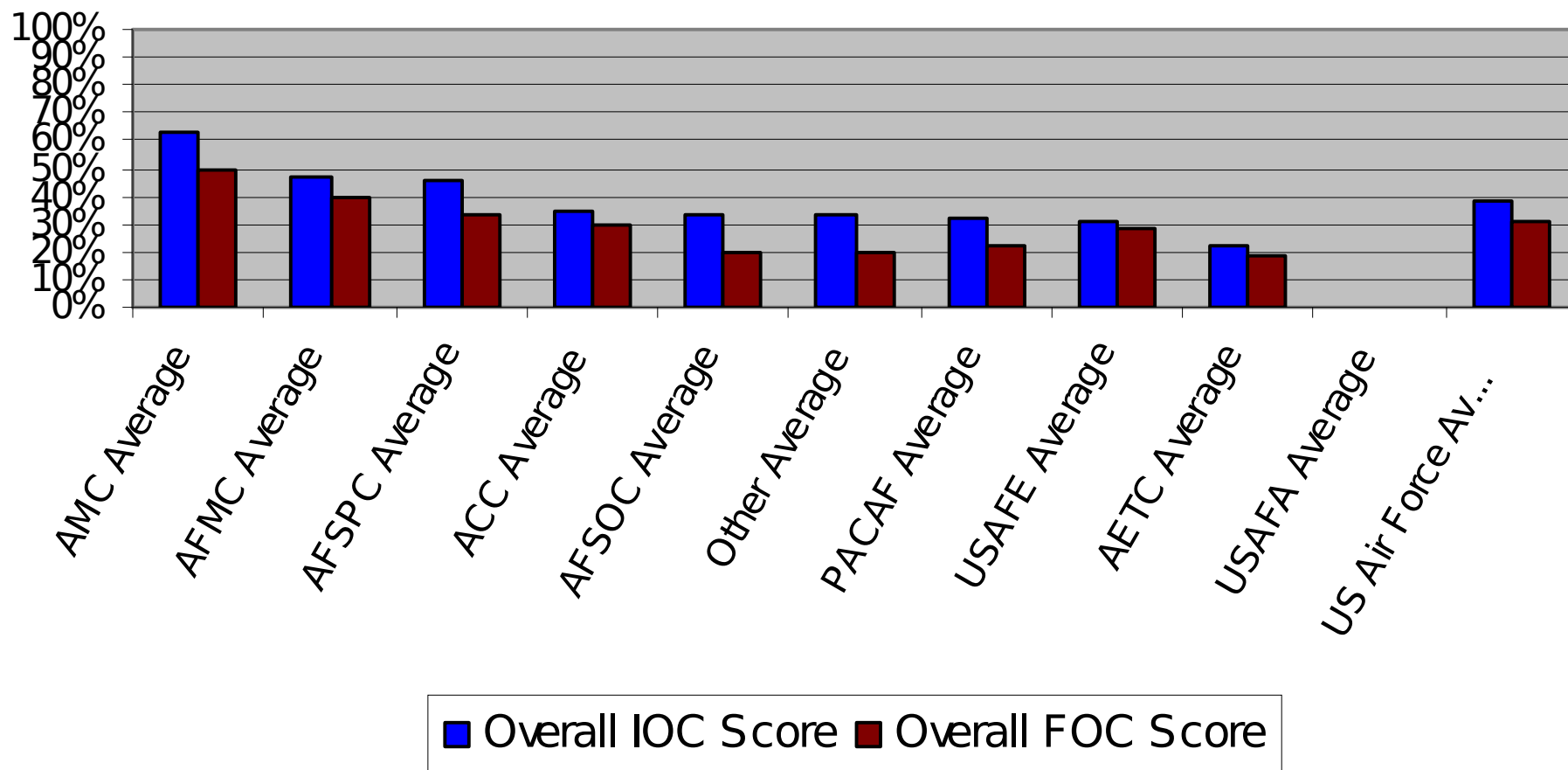
Analyzed CCS Limitations



USAF Implementation Metrics: DOHRS-IH



USAF CCS Implementation Metrics



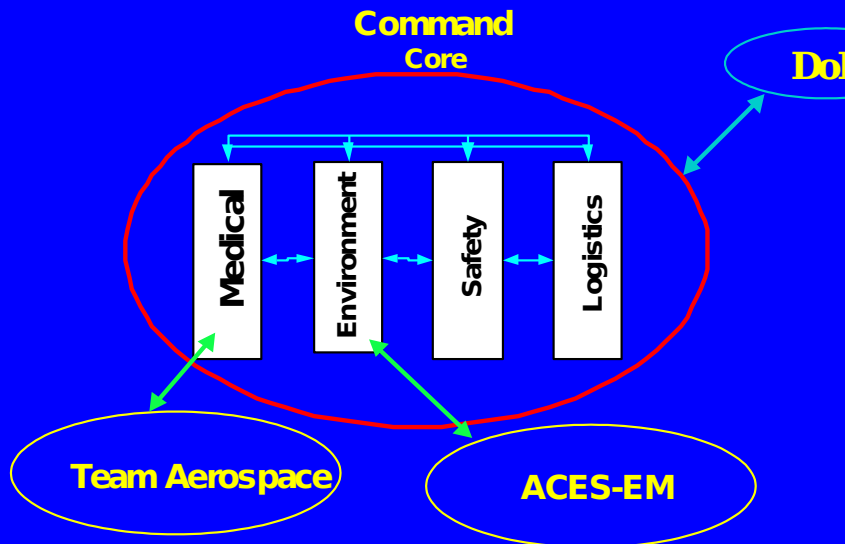
Command Core System

ESOH Data Integrator
Medical
Environmental
Logistics
Safety

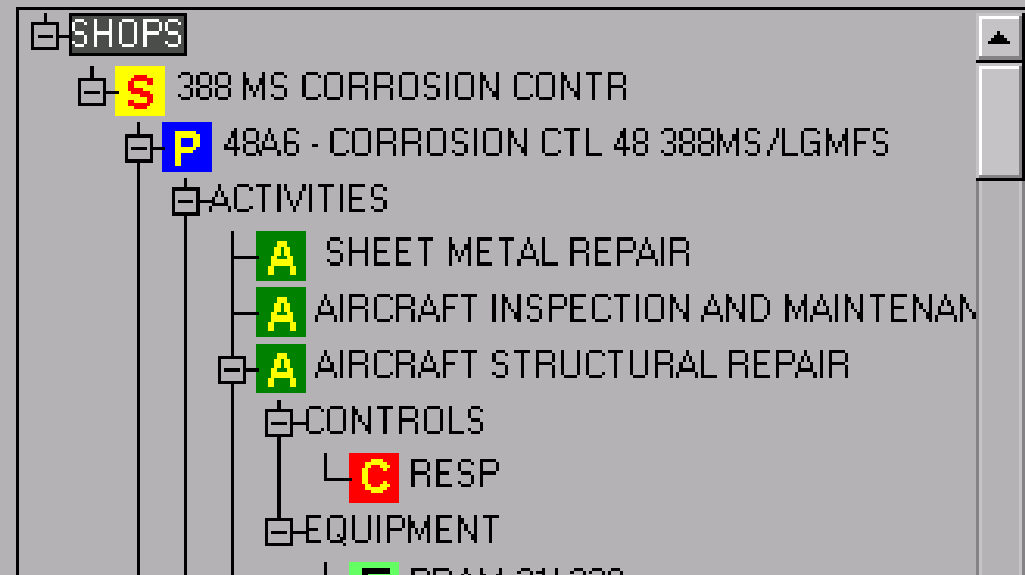
TODAYS Casefile

Future -- CCS-Theater

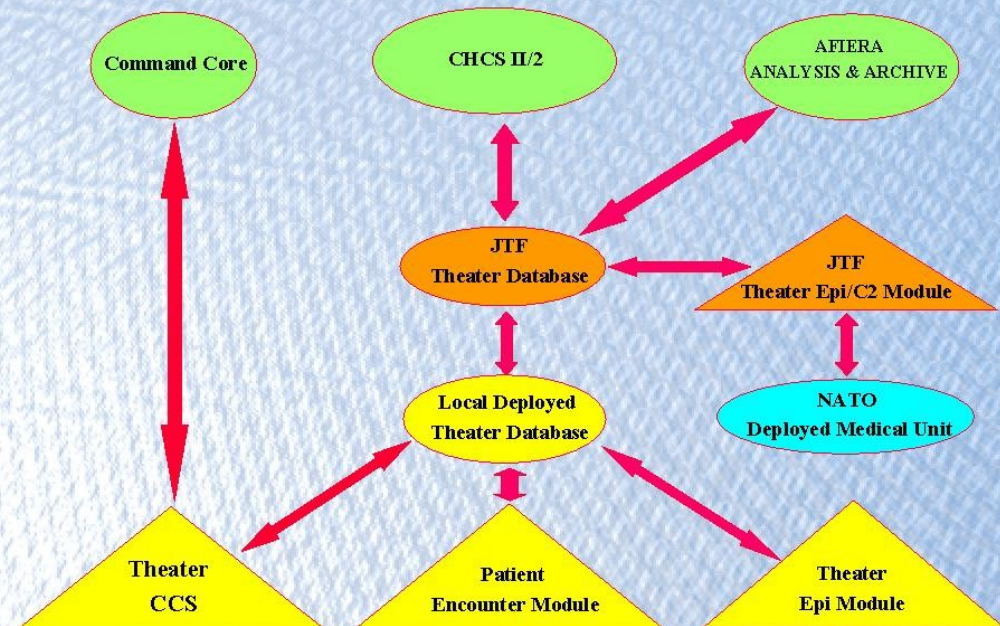
CCS Operational Model



MANAGEMENT VIEWS



Global Expeditionary IM/IT



Summary

- ◆ AF Team Aerospace
 - ◆ Full Spectrum IM/IT Solution
- ◆ CCS Fielded and Operational
- ◆ Meets Majority of Requirements
 - ◆ DORHS
 - ◆ TMIP
- ◆ ESOH Capable

QUESTIONS?



COMMAND CORE SYSTEM
The Power of Information